

State of West Virginia  
Department of Environmental Protection - Office of Oil and Gas  
Well Operator's Report of Well Work

RECEIVED  
Office of Oil and Gas  
APR 5 2022  
WV Department of  
Environmental Protection

API 47-051-01929 County Marshall District Washington  
Quad Moundsville Pad Name Hines Field/Pool Name N/A  
Farm name Donald Hines et UX Well Number Hines M07H  
Operator (as registered with the OOG) EQT CHAP LLC  
Address 400 Woodcliff Drive City Canonsburg State PA Zip 15317

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4,417,382.46 Easting 525,698.69  
Landing Point of Curve Northing 4,417,197.69 Easting 526,167.14  
Bottom Hole Northing 4,414,004.21 Easting 527,579.15

Elevation (ft) 1125' GL Type of Well  New  Existing Type of Report  Interim  Final  
Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
Type of Operation  Convert  Deepen  Drill  Plug Back  Redrilling  Rework  Stimulate  
Well Type  Brine Disposal  CBM  Gas  Oil  Secondary Recovery  Solution Mining  Storage  Other \_\_\_\_\_  
Type of Completion  Single  Multiple Fluids Produced  Brine  Gas  NGL  Oil  Other \_\_\_\_\_  
Drilled with  Cable  Rotary

Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  Fresh Water  Brine  
Production hole  Air  Mud  Fresh Water  Brine  
Mud Type(s) and Additive(s)

Synthetic Oil Based Mud 12.85 ppg barium sulfate, sodium chloride, xanthan gum, polyanionic cellulose, modified starch, sodium hydroxide, phosphonates and alkyl phosphates, glutaraldehyde solution, calcium hydroxide, partially hydrolyzed polyacrylamide/polyacrylate, potassium chloride, sodium carbonate, ground walnut shells, alcohol and modified fatty acid, ferrochrome lignosulfonate, calcium carbonate, fibrous cellulose

Date permit issued 08/15/2017 Date drilling commenced 12/13/2017 Date drilling ceased 05/03/2018  
Date completion activities began \_\_\_\_\_ Date completion activities ceased \_\_\_\_\_  
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 365 Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 1039,1595,1632 Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 365,655 Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) Y

Reviewed

Reviewed by:  
*MDK 5/11/22*  
05/27/2022

API 47-051 - 01929 Farm name Donald Hines et UX Well number Hines M07H

CASING STRINGS	Hole Size	Casing Size	Depth (GL)	New or Used	Grade wt/ft	Basket Depth(s) (GL)	Did cement circulate (Y/ N) * Provide details below*
Conductor	30"	20"	45'	NEW	X-52 218.82#	N/A	Y
Surface	17-1/2"	13-3/8"	393'	NEW	J-55 54.5#	N/A	Y
Coal							
Intermediate 1	12-3/8"	9-5/8"	1972'	NEW	L-80 40#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-1/2"	5-1/2"	18,877'	NEW	P-110 20#	N/A	N
Tubing							
Packer type and depth set							

Comment Details Production Cement job has a calculated TOC of 1649' GL, which is greater than 500' TVD above the producing formation. No issues during cement job.

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (GL)	WOC (hrs)
Conductor	CLASS A	N/A	N/A	N/A	N/A	0	8+
Surface	CLASS A	344	15.6	1.20	412	0	8
Coal							
Intermediate 1	CLASS A	685	15.6	1.19	815	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS H/CLASS H	776/2523	14.7/15.2	1.13/1.15	876/2901	1649	8+
Tubing							

Drillers TD (ft) 18,918' Loggers TD (ft) N/A  
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A  
 Plug back procedure

Kick off depth (ft) 4056'

Check all wireline logs run  caliper  density  deviated/directional  induction  
 neutron  resistivity  gamma ray  temperature  sonic

Well cored  Yes  No  Conventional  Sidewall Were cuttings collected  Yes  No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING

CONDUCTOR- NONE  
 SURFACE- ON SHOE TRACK AND EVERY 500' TO SURFACE  
 INTERMEDIATE: ON SHOE TRACK AND EVERY 500' FEET TO SURFACE  
 PRODUCTION: ON SHOE TRACK AND EVERY JOINT TO ABOVE TOC

WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED





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Drilling Contractor Precision Drilling  
Address 10350 Richmond Ave. Suite 700 City Houston State TX Zip 77042

Logging Company Scientific Drilling International  
Address 124 Vista Drive City Charleroi State PA Zip 15022

Logging Company \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Drilling Contractor \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

## Well # Hines M07H Final Formations API# 47-051-01929

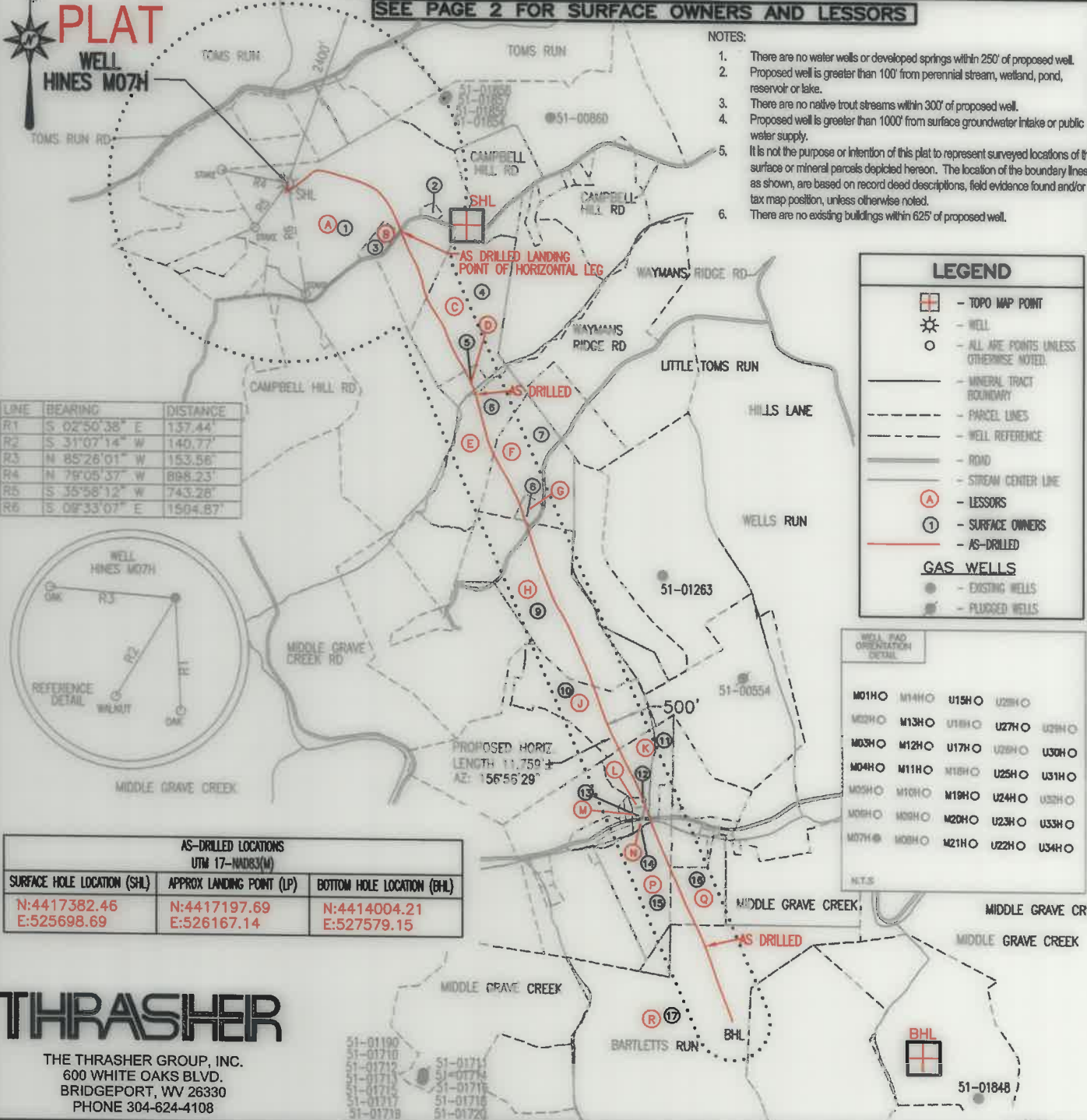
Formation Name	Drill Top MD (ftGRD)	Drill Top (TVD) (ftGRD)	Drill Btm MD (ftGRD)	Drill Btm (TVD) (ftGRD)
Sand/Shale	1	1	365	365
Waynesburg Coal	365	365	368	368
Sand/Shale	368	368	655	655
Pittsburgh Coal	655	655	661	661
Sand/Shale	661	661	1,595	1,592
Big Lime	1,595	1,592	1,657	1,653
Sand/Shale	1,657	1,653	1,831	1,826
Burgoon	1,831	1,826	1,984	1,978
Sand/Shale	1,984	1,978	2,198	2,191
Berea	2,198	2,191	2,219	2,212
Sand/Shale	2,219	2,212	2,455	2,448
Gordon	2,455	2,448	2,530	2,523
Sand/Shale	2,530	2,523	4,977	4,934
Elk	4,977	4,934	4,978	4,935
Sand/Shale	4,978	4,935	5,638	5,545
Rhinestreet	5,638	5,545	6,211	5,964
Donyea	6,211	5,964	6,408	6,050
Middlesex	6,408	6,050	6,481	6,081
Genesee	6,481	6,081	6,578	6,121
Genesee	6,578	6,121	6,642	6,147
Tully	6,642	6,147	6,735	6,181
Hamilton	6,735	6,181	7,015	6,265
Marcellus	7,015	6,265	18,918	6,440

05/27/2022

# AS DRILLED PLAT

BHL is located on topo map 14,972 feet south of Latitude: 39° 55' 00"  
 SHL is located on topo map 3,862 feet south of Latitude: 39° 55' 00"

**SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS**



- NOTES:
1. There are no water wells or developed springs within 250' of proposed well.
  2. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
  3. There are no native trout streams within 300' of proposed well.
  4. Proposed well is greater than 1000' from surface groundwater intake or public water supply.
  5. It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.
  6. There are no existing buildings within 625' of proposed well.

**LEGEND**

- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED
- MINERAL TRACT BOUNDARY
- PARCEL LINES
- WELL REFERENCE
- ROAD
- STREAM CENTER LINE
- LESSORS
- SURFACE OWNERS
- AS-DRILLED

**GAS WELLS**

- EXISTING WELLS
- PLUGGED WELLS

LINE	BEARING	DISTANCE
R1	S 02°50'38" E	137.44'
R2	S 31°07'14" W	140.77'
R3	N 85°28'01" W	153.58'
R4	N 78°05'37" W	888.23'
R5	S 35°58'12" W	743.28'
R6	S 09°33'07" E	1504.87'



AS-DRILLED LOCATIONS UTM 17-NAD83(M)		
SURFACE HOLE LOCATION (SHL)	APPROX LANDING POINT (LP)	BOTTOM HOLE LOCATION (BHL)
N:4417382.46 E:525698.69	N:4417197.69 E:526167.14	N:4414004.21 E:527579.15

WELL PAD ORIENTATION DETAIL

M01H	M14H	U15H	U28H	
M02H	M13H	U18H	U27H	U29H
M03H	M12H	U17H	U26H	U30H
M04H	M11H	M16H	U25H	U31H
M05H	M10H	M18H	U24H	U32H
M06H	M09H	M20H	U23H	U33H
M07H	M08H	M21H	U22H	U34H

N.T.S.

BHL is located on topo map 3,101 feet west of Longitude: 80° 40' 00"  
 SHL is located on topo map 9,231 feet west of Longitude: 80° 40' 00"

## THRASHER

THE THRASHER GROUP, INC.  
 600 WHITE OAKS BLVD.  
 BRIDGEPORT, WV 26330  
 PHONE 304-624-4108

FILE #: HINES M07H - AS DRILLED  
 DRAWING #: HINES M07H - AS DRILLED  
 SCALE: 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY: 1/2500  
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: *Joseph C. Mallow*  
 R.P.E.: \_\_\_\_\_ L.L.S.: P.S. No. 2346



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP  
 OFFICE OF OIL & GAS  
 601 57TH STREET  
 CHARLESTON, WV 25304



DATE: DECEMBER 13, 2021  
 OPERATOR'S WELL #: HINES M07H - AS DRILLED  
 API WELL #: 47 51 01929  
 STATE COUNTY PERMIT

Well Type:  Oil  Waste Disposal  Production  Deep  Gas  Liquid Injection  Storage  Shallow

WATERSHED: MIDDLE GRAVE CREEK-GRAVE CREEK ELEVATION: 1125.45'

COUNTY/DISTRICT: MARSHALL / WASHINGTON QUADRANGLE: MOUNDSVILLE, WV 7.5'

SURFACE OWNER: DONALD HINES ET UX ACREAGE: 114.934±

OIL & GAS ROYALTY OWNER: DONALD HINES ET UX ACREAGE: 617.697± 05/27/2022

DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION

PERFORATE NEW FORMATION  PLUG & ABANDON  CLEAN OUT & REPLUG  OTHER CHANGE

(SPECIFY): AS-DRILLED PLAT

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,465'± TMD: 18,943'±

WELL OPERATOR EQT CHAP, LLC DESIGNATED AGENT JOSEPH C. MALLOW  
 Address 400 WOODCLIFF DRIVE Address 427 MIDSTATE DRIVE  
 City CANONSBURG State PA Zip Code 15317 City CLARKSBURG State WV Zip Code 26301

# HINES M07H PAGE 2 OF 2 AS DRILLED

	LESSOR	DIST-TM/PAR
A	DONALD HINES ET UX	14-12/30
B	LANCE J. GOSSETT DONNA J. GOSSETT	14-12/30.2
C	PATRICIA S. HOSKINS	14-12/31
D	PATRICIA S. HOSKINS	14-12/31.2
E	PATRICIA S. HOSKINS	14-13/4
F	TIMOTHY GEHO	14-13/5
G	RICKY L. WATSON ET UX	14-13/5.1
H	TIMOTHY GEHO	14-13/6
J	RICHARD F. VARGO ET UX	14-13/21
K	ROBERT W. COFFIELD ET UX	14-13/15
L	JERRY W. DURBIN	14-13/15.3
M	ROBERT GOUDY ET UX	14-13/15.2
N	PETER PARKER	14-13/15.1
P	MM MARCELLUS III LP	3-1/2
Q	DONALD G. ROGERSON SR.	3-1/4
R	RICHARD P. FORSHEY	3-1/7

	SURFACE OWNER	DIST-TM/PAR
1	DONALD HINES ET UX	14-12/30
2	TERRY L. DERROW ET UX	14-12/30.3
3	LANCE J. GOSSETT ET UX	14-12/30.2
4	PATRICIA SUE HOSKINS	14-12/31
5	CHRISTOPHER BRICE HOSKINS	14-12/31.2
6	PATRICIA SUE HOSKINS	14-13/4
7	TIMOTHY G. GEHO ET UX	14-13/5
8	RICKY L. & TAMMY J. WATSON	14-13/5.1
9	TIMOTHY G. GEHO ET UX	14-13/6
10	RICHARD E. & JADE L. VARGO	14-13/21
11	R. M. COFFIELD FAMILY TRUST	14-13/15
12	JERRY W. DURBIN ET UX	14-13/15.3
13	ROBERT M. GOUDY ET UX	14-13/15.2
14	PETER PARKER	14-13/15.1
15	LARRY D. & BEVERLY J. KIDD	3-1/2
16	DONALD G. ROGERSON SR. - LIFE	3-1/4
17	RICHARD P. FORSHEY	3-1/7

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**DECEMBER 13, 2021**